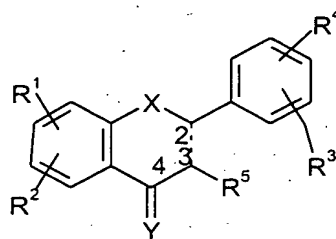


# Patent Claims

1. A compounds of the formula I



where

X is O, S or NH;

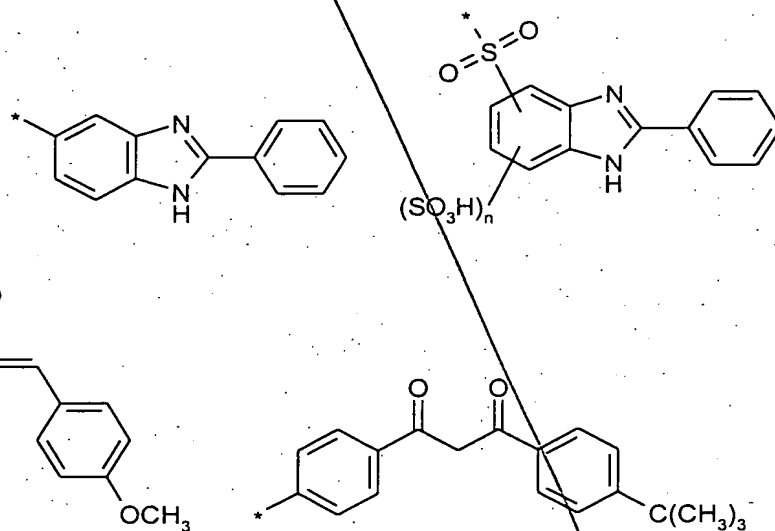
Y is O, S or NH;

a single or double bond may be provided between carbons C-2 and C-3,

R<sup>1</sup> and R<sup>2</sup>, and R<sup>3</sup> and R<sup>4</sup> may be provided at any positions on the ring, and also

R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> may be identical or different and independently of one another are -H, -OH or -OA, and

A is a group which absorbs UV radiation selected from the group formed from:





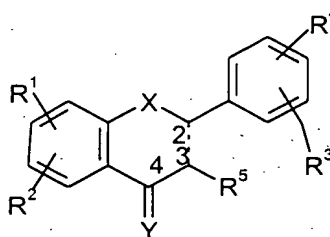
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 $k = 0, 1, 2, 3 \text{ or } 4$ 

15

and at least one of the groups  $R^1, R^2, R^3, R^4$  or  $R^5$  is formed by  $-OAr$ .

2) A compound of formula I



5 where

X is O, S or NH;

Y is O, S or NH;

a single or double bond may be provided between carbons C-2 and C-3,

10 R<sup>1</sup> and R<sup>2</sup>, and R<sup>3</sup> and R<sup>4</sup> may be provided at any positions on the ring, and also

R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> may be identical or different and independently of one another are -H, -OH or -OA,

in addition R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, independently of one another, can stand for a

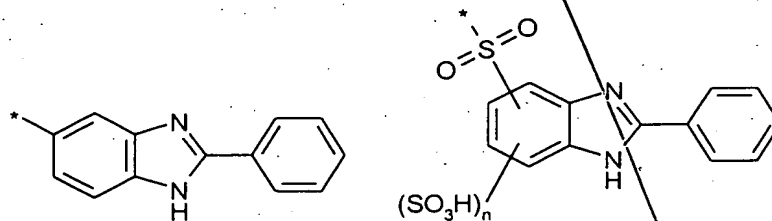
- 15
- straight-chain or branched oxyalkyl or carboxyalkyl group having 1 to 12 carbon atoms,
  - straight-chain or branched oxyalkenyl or carboxyalkenyl group having 2 to 12 carbon atoms,
  - straight-chain or branched hydroxyoxyalkyl group having 1 to 12 carbon atoms, where the hydroxyl group may be bonded to a primary or secondary carbon atom and, furthermore, the alkyl chain can also be interrupted by oxygen,
  - sulphate group,
  - phosphate group

20

  - and a mono- or oligoglycosyl radical, and

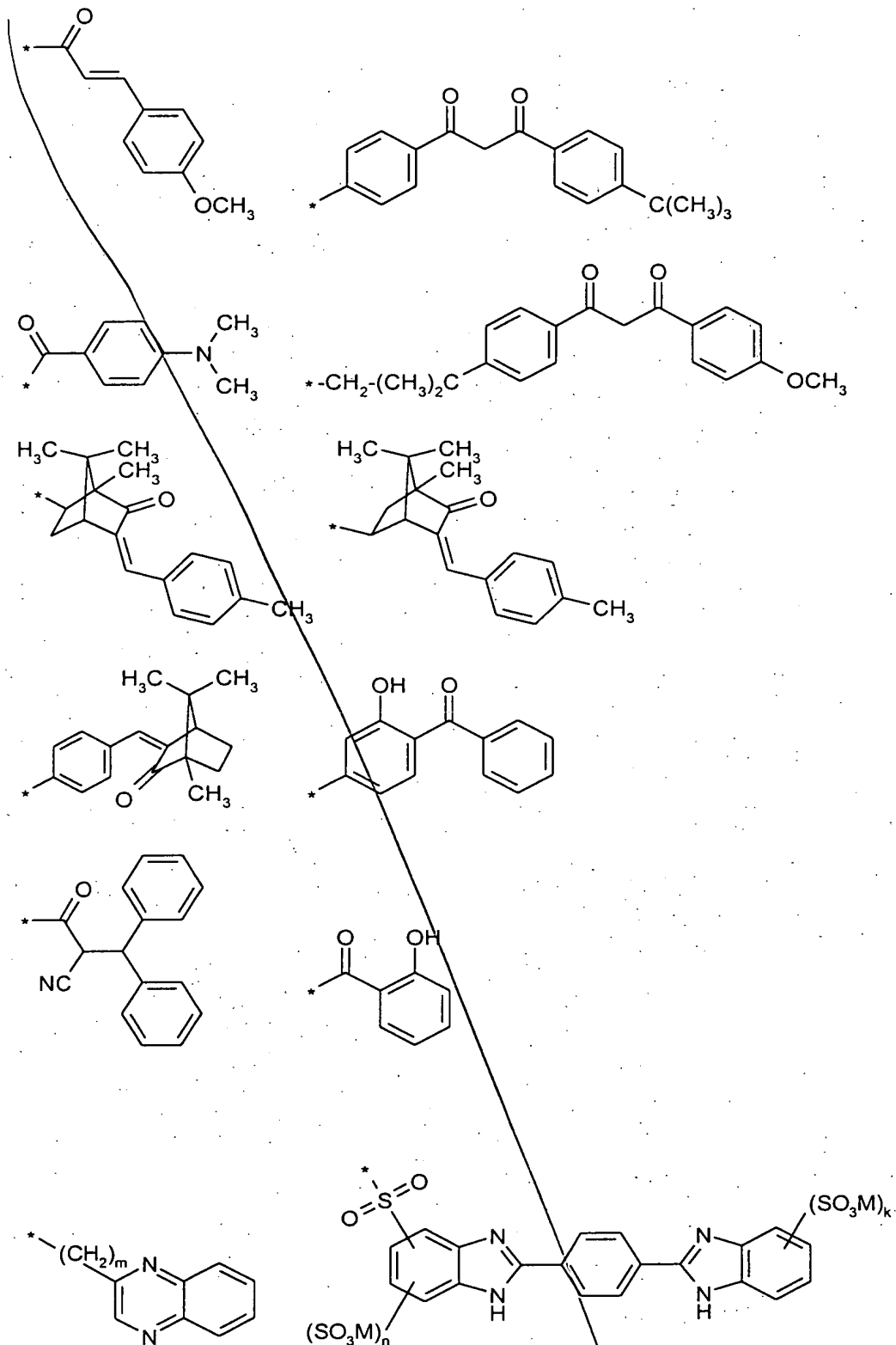
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A is a group which absorbs UV radiation selected from the group formed from:



Sub  
CU

where  $n = 0, 1, 2$  or  $3$



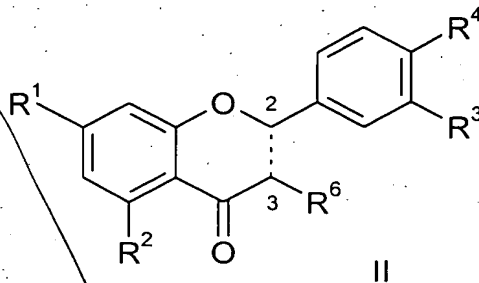
$m = 0$  or  $1$

$k = 0, 1, 2, 3$  or  $4$

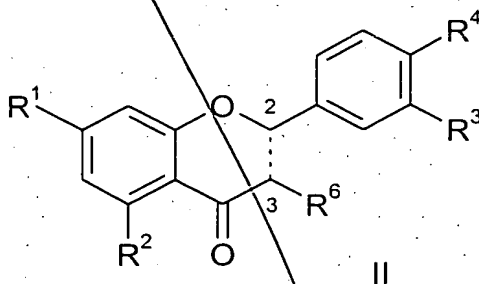
$M = H, Na$  or  $K$

5 and at least one of the groups  $R^1, R^2, R^3, R^4$  or  $R^5$  is formed by  $-OA$ .

3. A compound according to Claim 1, wherein said compound is of formula II



4. A compound according to Claim 2, wherein said compound is of formula II



15 5. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 1.

20 6. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 2.

25 7. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 3.

8. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 4.

5 9. A cosmetic formulation according to Claim 5, where the formulation comprises one or more additional UV filters and/or antioxidants.

10. A cosmetic formulation according to Claim 6, where the formulation comprises one or more additional UV filters and/or antioxidants.

11. A method for protecting the body's cells of a patient against oxidative stress, in particular for reducing skin ageing, comprising administering to said patient a formulation according to claim 5.

12. A method for protecting the body's cells of a patient against oxidative stress, in particular for reducing skin ageing, comprising administering to said patient a formulation according to claim 6.

13. An enriched foodstuff comprising a foodstuff and at least one compound according to Claim 1.

14. An enriched foodstuff comprising a foodstuff and at least one compound according to Claim 2.

15. A compound according to Claim 1 as medicaments.

16. A compound according to Claim 2 as medicaments.

17. Use of a compound according to Claim 2 for the preparation of a medicament against oxidative stress, in particular for reducing skin ageing.

18. Use of a compound according to Claim 2 for the preparation of a medicament for the treatment of inflammations or allergic reactions.

19. Use of a compound according to Claim 2 as antioxidant, in particular for cosmetic formulations.

Part 1: 02/12/2000  
Sub C1

22

C1

20. Use of compounds according to Claim 2 for the stabilization of UV filters, in particular dibenzoylmethane and derivatives of dibenzoylmethane.

add  
A1

add  
C1

[illegible]